

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

PCT

(10) International Publication Number
WO 2005/044657 A1

(51) International Patent Classification⁷: **B63B 59/08**, (74) Agent: CURO AS; Box 38, N-7231 Lundamo (NO).
B08B 3/02

(21) International Application Number:
PCT/NO2004/000339

(22) International Filing Date:
10 November 2004 (10.11.2004)

(25) Filing Language: Norwegian

(26) Publication Language: English

(30) Priority Data:
20034978 10 November 2003 (10.11.2003) NO

(71) Applicant (for all designated States except US): CLEAN-
HULL NORWAY AS [NO/NO]; Notodden Næringspark,
Box 44, N-3671 Notodden (NO).

(72) Inventors; and

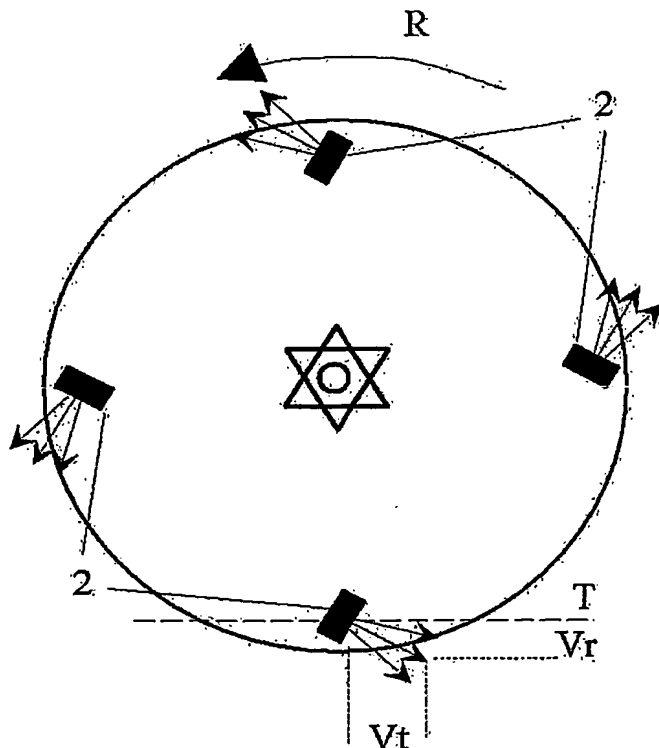
(75) Inventors/Applicants (for US only): ANDERSEN,
Robert [NO/NO]; Rugdevegen 12, N-3678 Notodden
(NO). SPERRE, Thor, Olav, E. [NO/NO]; Hjuksebø,
N-3683 Notodden (NO).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DEVICE FOR CLEANING SUBSEA SURFACES SUCH AS SHIP HULLS



(57) Abstract: Device for cleaning of surfaces under water, such as ship hulls, comprising a rotary disc (1) furnished with nozzles (2) for discharge of pressurized liquid against the surface to be cleaned. The nozzles (2) are mounted obliquely in relation to the rotational axis (3) of the rotary disc (1) and are arranged to be supplied with pressurized liquid through a hollow spindle (4) that is concentric with the rotational axis (3). The nozzles have an inclination that has an orientation involving that the velocity component (V_p) of the liquid jet from each nozzle (2) that is not perpendicular to the surface to be cleaned, has a tangential velocity component (V_t) that has the same direction as the direction of rotation (R) of the rotary disc (1) and optionally a radial velocity component that is positive, i.e. that is directed outwards in relation to the centre of the disc.

WO 2005/044657 A1



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.